Form 3160-4 (November 1983) (formerly 9-330)

1a. TYPE OF WELL:

2. NAME OF OPERATOR

At surface

15. DATE SPUDDED

28

29.

33 *

9-3-86

CASING SIZE

BIZE

13-3/8"

8-5/8"

20. TOTAL DEPTH, MD & TVD

3. ADDRESS OF OPERATOR

b. TYPE OF COMPLETION: WELL X

At top prod. interval reported below

26. TYPE ELECTRIC AND OTHER LOGS RUN

SUBMIT IN DUPLICA UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

14. PERMIT NO.

22. IF MULTIPLE COMPL.,

CASING RECORD (Report all strings set in well)

HOLE SIZE

17-1/2"

12-1/4"

17. DATE COMPL. (Ready to prod.)

Rel Unit & SI 11-25-86

SACKS CEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

DEEP-

Union Oil Company of California

2300' FSL & 1875' FEL

16. DATE T.D. REACHED

9-23-86

WEIGHT, LB./FT.

54.5#

32#

P. O. Box 2620 - Casper, WY 82602-2620 4. LOCATION OF WELL (Report location clearly and in accordance with any State requir

2300' FSL & 1875' FEL (NE NW SE)

21. PLUG, BACK T.D., MD & TVD

4178' ETD 24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)

LINER RECORD

BOTTOM (MD)

None - (Will re-evaluate well next spring

DIL-SFL-GR/LDT-CNL/LSS/SHDT-FIL/CBL/Dual Dipmeter/Cyberdip/

DEPTH SET (MD)

417.37'

3294.16'

Other Exploratory -CONFIDENTIAL INFORMA

SURMIT	IN DUPLICATE.	Form approv Budget Bure	eau No. 1004-0137				
	(Secother.	Expires Aug	API No. 30-039-23905				
NTERIOR ENT	structions of reverse side	e) 5. LEASE DESIGNAT	CHON AND SERIAL NO.				
EN I			ontract #473				
REPORT A	ND LOG*		6. IF INDIAN, ALLOTTEE OR TRIBE NAME				
Explor	atory - S.I	Jicarilla					
	INFORMATION	- 1 /	1 17.512				
Other		S. FARM OR LEASE	NAME				
			(121)				
		9. WELL NO.	(521)				
20 RECE	EINÉD	1					
ny State requirem	ente) •						
DEC 0	8 1986		11. SEC., T., R., M., OR BLOCK AND SURVEY				
BUDEAU OF AN	D MANAGEMENT	Sec. 21. T	.30N. R.1W.				
FARMINGTON I	RESOURCE AREA	, , , ,	, R. 1				
O. / DA	TE ISSUED	12. COUNTY OR PARISH	13. STATE				
to anoth 1							
to prod.) 18. E	8204 GR	, mi, da, Elc.,					
LTIPLE COMPL.,	23. INTERVALS	ROTARY_TOOLS	CABLE TOOLS				
MANY*	DRILLED	'N E-Md.					
(MD AND TVD)) E CE	2					
t spring.		22.00					
u ·	DEC22	1986					
Dipmeter/Cs	bendia/Cuh	r160k/V01an					
eport all strings se		, 100k, 101hii	Yes				
OLE SIZE		G RECORD	AMOUNT PULLED				
7-1/2"	550) sx					
2-1/4"	910	50 sx					
(1	on Page 3)					
I ganger (ve)	30.		1 ()				
SCREEN (MD)	2-7/8"		, , ,				
-	$-\left \frac{2}{1}\right $		3401.03 (10p)				
32.	ACID, SHOT, FRA	Sec. 21, T.30N., R.1W. 12. COUNTY OR PARISH RIO Arriba New Mexico RT, GR, ETC.)* 19. ELEV. CASINGHEAD S204 ROTARY TOOLS CABLE TOOLS CABLE TOOLS CABLE TOOLS CABLE TOOLS CABLE TOOLS YES AMOUNT PULLED SX SX					
DEPTH INTER	VAL (MD)	AMOUNT AND KIND OF	MATERIAL USED				
3576-403							
			all cealers.				
2576 /00		w/100 7/8" b					
3576-403	34 no REVEST	4,000 gals Apo	11o 40 ge1				
DDUCTION	34 no REVEST	4,000 gals Apo 450,000# 20-40					
DDUCTION FOR	type of pumps	4,000 gals Apo 450,000# 20-40 WELL STATU Shut-in)	11o 40 gel mesh sand				
DDUCTION FOR	type of pumps	4,000 gals Apo 450,000# 20-40 WELL STATU Shut-in)	11o 40 gel mesh sand s (Producing or				
DDUCTION FOR	type of pumps	4,000 gals Apo 450,000# 20-40 WELL STATU Shut-in)	11o 40 gel mesh sand B (Producing or hut In				
DDUCTION FOR	type of pumps	4,000 gals Apo 450,000# 20-40 WELL STATU Shut-in)	mesh sand s (Producing or hut In GAS-OIL RATIO				
DOUCTION FOR THE PROPERTY OF T	THE RESURCE	4,000 gals Apo 450,000# 20-40 WELL STATU Shut-in)	110 40 gel mesh sand B (Producing or hut In GAS-OIL BATIO RAVITY-API (CORR.)				
DDUCTION FOR	THE PARTY OF THE P	WELL STATU Shut-in) S WATER BBL. OIL G	110 40 gel mesh sand B (Producing or hut In GAS-OIL RATIO RAVITY-API (CORR.) Y				

5-1/2" 2962.58 4228.16 280 sx 2-7/8 31. PERFORATION RECORD (Interval, size and number) ACID. SHOT 3576-4034' - Niobrara - 48 holes with DEPTH INTERVAL (MD) 3-3/8" select-fire gun <u>3576-4034'</u> (See Details on Page 3) 3576-403 PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping)
N.A. DATE FIRST PRODUCTION None DATE OF TEST HOURS TESTED CHOKE SIZE PROD N. POP TEST PERIOD *(See Below) PLOW. TUBING PRESS. CASING PRESSURE CALCULATED OIL--RBL 24-HOUR RATE 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) *11-15-86 thru 11-25-86: Swbd & Niobrara perfs on various chokes from 48/64 liquid hydrocarbons w/gas rate grad. decr. from 310 MCFD t 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records District Drilling Supt. SIGNED TITLE DATE ___ Additional Data on Reverse Side) a crime for any person knowingly and willfully to make to any department or agency of the It a crime ... fraudulent statement OCC representations as to any matter within its jurisdiction.

ERS	TOP	TRUE VERT. DEPTH	+6062' +5709' +4907'		 	 		
GEOLOGIC MARKERS		MEAS, DEPTH	2157' 2510' 3312'		 	 		
38. GE		NAME	Mesaverde Mancos Niobrara					
tool open, flowing and shut-in pressures, and	DESCRIPTION, CONTENTS, ETC.		Rec. 29.85' Blk Shale Rec. 29.65' Blk Shale Rec. 13.5' Blk Shale Rec. 30' Blk Shale Rec. 30' Blk Shale				in accordance with Union and reported by drilling il on tour sheets.	
drill-stem, tests, including depth interval tested, cushion used, time tool open, flow recoveries):		Core #1: Cored 30'.	Core #2: Cored 30'. Core #4: Cored 13'. Core #5: Cored 30'. Core #6: Cored 30'.	ST's.			Note BOP's tested daily in Oil Company policy and contractor personnel	
leivai iesieu, cu:	BOTTOM	3637'	3700' 3817' 3879' 3936' 4000'			 ······································		
nciuding deptn in	TOP	3607	3670' 3787' 3866' 3906'			 		
recoveries):	FORMATION	Niobrara	= = = =					

Union Oil Company of California Jicarilla (J21) Well No. 1 Rio Arriba County, New Mexico 12-2-86 Page 3

No. 28 - Cementing Record Details - Continued:

13-3/8" Casing at 417.37'

 $\overline{550}$ sacks (649.00 cu. ft.) of class "G" cement with 2% CaCl₂ and 1/4# flocele per sack cement. Circulated 224 sacks of cement to surface. Top of cement at surface.

5-1/2" Casing Liner from 2962.58' to 4228.16'

Ran and cemented 5-1/2" casing liner at 4228.16' (with top of landing collar at 4184.06' and top of 5-1/2" x 8-5/8" liner hanger packer at 2962.58') with 280 sacks (330.40 cu. ft.) of class "H" cement with 0.45% CF9, 2% KC1, 5# per sack Hi-Seal, and 0.2% TF4, as follows: Set liner hanger 0.K. Pumped 60 bbls. 2% KC1 water followed by 20 bbls. 9.1 ppg gelled water. Mixed and pumped 50 bbls. cement slurry at 4 bpm at 100-150 psi. Displaced with 68-1/2 bbls. water at 4-2 bpm at 150-250 psi. Bumped plug with 800 psi. Released pressure and float held. Did not set liner packer. Circulated hole and recovered small amount of firm cement. Pressure tested liner top to 1000 psi for 1/4 hr. 0.K. Top of cement at 3240'.

No. 31 - Perforation Record (Details) - Continued:

Perforated Niobrara formation with 1 spf with 3-3/8" select-fire gun (48 holes) as follows:

3576', 3578', 3590', 3592', 3602', 3606', 3610', 3628', 3638', 3672', 3676', 3680', 3702', 3704', 3706', 3710', 3721', 3740', 3754', 3767', 3773', 3785', 3788', 3796', 3800', 3815', 3824', 3831', 3835', 3841', 3851', 3872', 3877', 3889', 3900', 3903', 3906', 3956', 3960', 3979', 3984', 3988', 3990', 3992', 3997', 4030', 4032', and 4034'.